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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/583,999	06/22/2006	Kazumitsu Shiomi	0425-1258PUS1	3390
	7590 03/28/201 ART KOLASCH & BI	EXAMINER		
PO BOX 747	CH 3/4 22040 0747	MCKENZIE, THOMAS		
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
			1776	
			NOTIFICATION DATE	DELIVERY MODE
			03/28/2011	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	Applicant(s)			
Office Action Summary		10/583,999	SHIOMI ET AL.			
		Examiner	Art Unit			
		THOMAS MCKENZIE	1776			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence ad	idress		
WHIC - Exter after - If NO - Failu Any r	CRTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing ad patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. tely filed the mailing date of this c (35 U.S.C. § 133).			
Status						
1) ズ	Responsive to communication(s) filed on 26 Ja	anuary 2011				
<i>'</i> —	· · · · · · · · · · · · · · · · · · ·	action is non-final.				
′=	Since this application is in condition for allowar		secution as to the	e merits is		
-, -	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
	·					
Dispositi	on of Claims					
5) \[\] 6) \[\] 7) \[\]	Claim(s) <u>1-7</u> is/are pending in the application. 4a) Of the above claim(s) <u>2-6</u> is/are withdrawn is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or					
Applicati	on Papers					
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 Cl	, ,		
Priority u	ınder 35 U.S.C. § 119					
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National	Stage		
Attachmen		A) Intensions Comments	(PTO-412)			
2) Notic 3) Inform Pare	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No[s]/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			
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DETAILED ACTION

Specification

1. The objections to the specification are withdrawn in light of the present amendments.

Claim Objections

- 2. The objection to **claim 3** is withdrawn as it is cancelled.
- 3. Applicant's arguments with respect to **claims 1 and 7** have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. Claims 1 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Katsuda et al, US 2002/0017777 (Katsuda) in view of Jordan.
- 7. Regarding **claim1**, Katsuda substantially teaches:

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- 8. A filter for a gas generator (figure 1, part 7, paragraphs 37 and 58), comprising a wound tubular metal material (figure 1, part 7; paragraphs 37 and 38) containing iron wires (paragraph 38), wherein intersecting parts of the metal wires are bonded ("wire mesh", paragraph 37).
- 9. Although Katsuda does not explicitly teach the iron wires contain a copper coating, Katsuda does teach the gas generator uses a non-azide gas generating agent as a propellant (paragraph 32).
- 10. In an analogous art of inflators, Jordan substantially teaches a wound, metal wire, gas-generator filter provided containing copper coated wires (column 4, lines 55-60). The thickness of the copper coating ranges from 0.0003-0.015 inches (7.62-381 microns) (column 5, lines 14-19) which substantially reads on 0.5-10 microns as claimed. Jordan teaches that the copper coating is necessary to prevent degradation of the components of the gas generator (i.e. the metal filter), when non-azide propellants are used (column 2, lines 35-45). It would have been obvious to one of ordinary skill in the art at the time of the invention to use such a copper coating with the wires of Katsuda in order to prevent degradation.
- 11. Please note that the limitations "formed by winding" and "bonded by affixing and solidifying of the molten copper" are not given weight since they are directed to the method of forming the apparatus rather than the structure of the apparatus. The cited prior art teaches all of the positively recited structure of the claimed apparatus or product. The determination of patentability is based upon the apparatus structure itself. The patentability of a product or apparatus does not depend on its method of production

or formation. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process. See *In re Thorpe*, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985) (see MPEP § 2113).

- 12. Additionally, please note that the Examiner considers the intersecting parts of the metal wires in the metal mesh of Katsuda to be bonded to each other, as these metal meshes are known in the art to contain crisscrossed wires bonded at the crisscrossed intersections.
- 13. Regarding **claim 7**, Katsuda substantially teaches:
- 14. A gas generator for an air bag (paragraph 58), comprising:
- 15. a housing having a gas discharge port (figure 1, part 11; paragraph 59), an ignition means actuated by impact (figure 1, part 4; paragraph 62), a combustion chamber storing a gas generating agent that Is ignited and burned b the ignition means to generate a combustion gas (figure 1, part 5; paragraph 62), and a filter for filtering and cooling a combustion gas, wherein the filter for a gas generator according to **claim** 1 is used as a filter (figure 1, part 7; paragraph 58).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 7,578,522; 7,452,397; 7,172,214; 6,626,461; 6,123,359; 5,645,296; 5,547,638; 5,613,705.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to THOMAS MCKENZIE whose telephone number is (571)270-5327. The examiner can normally be reached on Monday-Thursday 7AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571-272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/THOMAS MCKENZIE/ Examiner, Art Unit 1776 /Duane Smith/ Supervisory Patent Examiner, Art Unit 1776

TBM